Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	18 October 2022
Team ID	PNT2022TMID36233
Project Name	Project – Smart lender-Applicant credibility prediction for loan approval.
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2
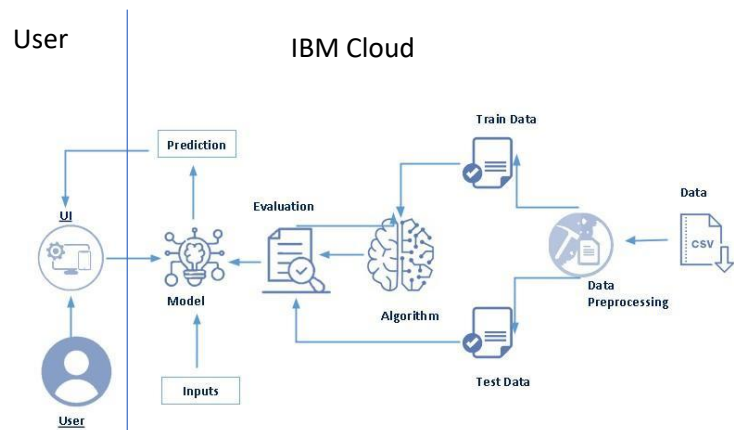
Guidelines:

1. Include all the processes (As an application logic / Technology Block)
2. Provide infrastructural demarcation (Local / Cloud)
3. Indicate external interfaces (third party API's etc.)
4. Indicate Data Storage components / services
5. Indicate interface to machine learning models (if applicable)

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User can interact our application through mobile and web user interface	HTML, CSS, and Python flask
2.	login	User can enter their user Id and password to login the user profile	HTML,CSS and Python flask
3.	Registration	User one who login can direct to registeration page.	HTML,CSS and Python flask
4.	Creditability details	User can enter their details to check eligibility of loan	Front end –HTML,CSS,MySQL,Python flask Back end-Python
5.	Database	Data Type-string , Numeric	MySQL
6.	Cloud Database	Database Service on Cloud	IBM
7.	File Storage	File storage requirements	NIL
8.	External API-1	Purpose of External API used in the application	NIL
9.	External API-2	Purpose of External API used in the application	Aadhar API
10.	Machine Learning Model	Predict the loan eligibility from the user data with help of trained data and test data.	Data Recognition Model.
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	NIL

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	International Business Machines.	cloud
2.	Security Implementations	Secure by sending OTP to respected Email	Encryptions
3.	Scalable Architecture	The key of 3-tier architecture to improve scalability.	3-tier architecture
4.	Availability	High availability by sending request to load balancer	Load balancer
5.	Performance	Larger number of users can handle at the same time.	Load balancer